

TEMPORARY TECHNICAL SERVICE MANUAL

B•I•C MODELS

911, 912, 912C, 914, 914C

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Note: See the Owner's Manual for proper setup procedure and  
any adjustments not covered in the Service Manual.

# FAULT FINDING CHART

(All reference numbers shown on this chart correspond to the Exploded View.)

SYMPTOM	CAUSE	REMEDY
<u>AC SUPPLY</u>		
Unit fails to start	Open or improperly wired power supply	Re-wire
	AC switch defective or mis-aligned (#80)	Replace or re-align
<u>TONEARM</u> (Excluding 911)		
1. Lowers to incorrect position	Stylus overhang incorrect	Reset
	Setdown improperly adjusted	Re-adjust by turning setdown adjustment screw (See Owners Manual)
	Pickup lever (#70) bent	Re-align
2. Lift is too high or too low	Lift height screw mis-adjusted (#35)	Re-adjust by turning lift height screw (See Owners Manual)
3. Lands at 45 position when set at 33	Pickup lever (#70) not engaging correct step on size selector lever (#127)	Observe point pickup lever engages size lever, re-align
	Size selector lever (#127) binding	Check for free movement, check that spring (#128) is installed
4. Tonearm drift	Cue brake pin (#41) out of adjustment	See page 16



SYMPTOM	CAUSE	REMEDY
5. Fails to track	Transit screws fully tightened (#145)	Loosen screws by turning clockwise
	Tonearm leads too tight	Free tonearm leads
	Pickup lever (#70) bent, hitting on main cam (#98)	Re-align
	Cue brake pin (#41) not disengaging	See Page 16
	Lateral friction	Check lateral bearing (#31) and pivot, clean or replace
6. Stylus does not track first grooves of record	Setdown not properly adjusted	Re-adjust - See Owners Manual
	Cue brake pin (#41) improperly adjusted	See Page 16
7. Stylus sticks on last band of record	Pickup lever (#70) bent, rubbing on main cam (#98)	Re-align
	Tonearm leads too tight	Redress leads for more slack
	Excessive friction in trip mechanism	Clean pivot with cotton swab saturated in alcohol
8. Tonearm will not leave rest post	Cam gear (#98) does not cycle	Replace
	Spring (#138) on drive plate (#133) missing	Replace
9. Tonearm movement rough	Drive plate (#133) bent or movement restricted	Reshape/lubricate pivot and point of contact with lift pin (#43)

SYMPTOM	CAUSE	REMEDY
<u>TURNTABLE SPEED</u>		
1. Consistently fast or slow	Motor pulley height mis-adjusted, belt rubbing	Re-adjust - top of pulley must be level with top of speed cam (#192)
	Grease or oil on drive surfaces	Clean drive surfaces with alcohol
2. Turntable does not revolve	Belt off pulley	Re-install - See Owners Manual
	Defective drive motor (#185)	Replace
3. Variable pitch control inoperative	Belt off (#170 & 173)	Re-install or replace
	Expanding motor pulley (#187)	Repair or replace
<u>CUE AND CYCLE</u>		
1. Arm will not cue up	Cue lever (#120) off cue spool (#116)	Repair or replace
	Screw stripped (#119)	Replace
	Cue link (#112) deformed	Re-align or replace
2. Arm will not cue down	Cue link (#112) bent	Re-align or replace
3. Cues too fast	Insufficient silicon compound	Repack lift pin (#43) See Page 17
4. Will not cycle when play key is depressed	Reject rod (#110) bent, binding	Re-align or replace
	Spring (#111) missing	Replace
	Reject lever (#90) binding	Check for free movement
	Trip pawl ( #96) not resetting, sticking	Clean pivot with alcohol

SYMPTOM	CAUSE	REMEDY
5. Fails to trip	Pickup lever (#70) bent, not contacting trip pawl plate	Re-align
	Trip pawl (#96) not engaging cog on platter, insufficient reset	Re-align or replace
	Trip pawl pivot contaminated	Clean with alcohol
6. Continuous trip	Reject lever (#90) does not reset	Check for free movement
	Trip mechanism not re-setting	Re-align or replace

## ANALYSIS OF THE MECHANISM

All reference numbers correspond to the Model 911 thru 914C exploded view.

### CUEING

As the cue lever (#120) is moved forward the cue spool (#116) rotates and drives the cue link (#112). The other end of the cue link impulses the rocker plate (#44) down, raising the opposite end of the rocker plate and the lift pin (#43). The lift pin rises thru the pickup base raising the tonearm.

The lift pin cylinder (#34), thru which the lift pin (#43) passes, contains silicon compound. This provides slow, gentle tonearm lift.

When the cue lever (#120) is returned to the play position the cue spool (#116) rotates allowing the cue link to move. This allows the rocker plate (#44) to move in the opposite direction. When this occurs the lift pin (#43) is lowered allowing the tonearm to descend. The silicon compound in the cue cylinder (#34) allows slow gentle descent of the tonearm.

### ADJUSTABLE CUEING RATE

You should now already understand how the cueing device operates and, as you will see, if the tension of the compression spring (#46) acting against the rocker plate (#44) is varied, the amount of thrust given to the lifting pin will also vary. The heavier the spring

compression, the faster the pin will move through the damping compound.

#### TURNTABLE ROTATION AND SPEED CHANGE

Turntable Rotation: The turntable begins to revolve when the following electrical and mechanical actions occur:

When the program knob (#60), which is attached to the detent slider (#89), is moved from "Off", it impulses the program link (#86) which moves the program cam (#124). This closes the AC Switch (#80) which starts the motor revolving. The schematic of the electrical components is included in this manual and, if power is not being supplied to the motor, please refer to the schematic. As the motor revolves, the motor pulley (#187) which is locked to the motor shaft through a set screw (#188) also revolves. When the motor pulley revolves, the drive belt (#4) also turns which causes the platter to revolve.

NOTE: The Model 911 is a manual turntable. The AC switch is located directly beneath the Stop/Start key. When the Stop/Start key is depressed the AC switch allows the motor to be energized.

33 and 45 Speeds: The speed of the motor is 300 RPM. To achieve 33 and 45 speeds, the belt is moved from one position on the motor pulley to another position on the motor pulley.

The speed control knob (#61) moves the speed/size rod (#82) which moves the speed change lever (#54). The speed change cam (#192) is attached to the speed change lever (#54) and as the lever moves, the cam moves with it.

You will notice that there are two cam surfaces on the speed change cam. The lower surface, for the 33 position, pushes the belt upward so that it engages the 33 RPM step of the motor pulley. The upper surface pushes the belt down from the 33 RPM step to the 45 RPM step of the motor pulley.

**Record Size:** The size of the record to be played is set when speed is selected. When the speed/size knob (#61) is set to 33 the speed/size rod (#82), which travels in a slot in the unit plate, allows the size selector lever (#127) to pivot to its maximum. As the tonearm moves inward the pickup lever (#70) stops at the edge of the size selector lever (#127). This prevents the tonearm from landing past the setting for 12" 33 RPM.

When the speed/size knob (#61) is set at 45, the speed/size rod (#82) prevents the size selector lever (#127) from pivoting, permitting the pickup lever (#70) to move further inward. The step on the size selector lever (#127) stops the pickup lever (#70) and the tonearm at the correct setting for 7" 45 RPM.

#### AUTOMATIC PLAY AND SHUTOFF - Excluding Model 911

As the program knob is moved from OFF to the number of records selected, the slider detent (#89) and program link (#86) also move. One end of the program link (#86) passes thru the program cam (#124) and the subchassis. When the program knob (#60) is moved to any number on the control panel, the program link (#86) registers in the equivalent detent in the program cam (#124).

Play Key: Depressing the play key (#11) causes the reject rod (#110) to rotate. This rotation allows the reject lever (#90) to be pulled by spring #91. The end of the reject lever (#90) nearest the main cam (#98) swings towards and impulses the trip pawl (#96).

A cog on the platter hub engages the trip pawl and the cam gear is driven to allow its gear teeth to engage the teeth on the turntable hub.

As the cam gear rotates, a pin on the cam moves the secondary program cam (#123) to the left. (The secondary program cam has the same number of teeth as the main program cam.) As it moves to the left, one of the teeth engages and steps down the program link (#86) halfway to the next position. As the main cam (#98) continues rotation, a second pin moves the main program cam (#124) to the right. As it swings right its teeth also engage the program link (#86) completing step down to the next position.

This process continues throughout each automatic cycle until the "Manual" position is reached. At this point the program link (#86) will be in the last detent of the program cam (#124). During the last cycle, the program cam (#124) moves the program link (#86) into the angled portion of the program cam. The program cam swings to the left, opening the AC switch (#80) which shuts off the power supply.

NOTE: Single Play Automatic Models 912 and 914 differ from the above in the following: When the program knob (#60) is moved to the Repeat position, the program link (#86) moves into an area in the

secondary program cam (#123) which has a blanked toothless area. The program link cannot be stepped down in this position and the unit will continue to cycle indefinitely, until manually moved down to the next position.

#### AUTOMATIC CYCLE

When automatic cycle is initiated, the turntable causes the cam gear (#98) to rotate. This gear has an eccentric track which varies in depth and causes the drive plate (#133) to move both in and out and up and down. The latter motion causes the tonearm to move up and down and the former motion allows it to move in and out. As the cam gear (#98) rotates, the cam follower on the drive plate (#133) is driven down causing the opposite end to raise. This pushes up the lift pin (#43) which raises the tonearm. As the arm raises, the cam follower is driven outward. This motion is transmitted to the pickup lever (#70) which causes the tonearm to move outward. As the cam continues to rotate, the eccentric track moves the drive plate (#133) inward and, in turn, the tonearm is moved inward until the pickup lever (#70) engages the size selector lever (#127). The drive plate (#133) disengages from the pickup lever and enters the deepest portion of the track releasing the lift pin. The cam is now in the neutral position and stops moving. The tonearm descends to the record and begins tracking inward.

When the tonearm reaches the lead out grooves at the end of the record, the pickup lever (#70) drives the trip pawl plate (#95) inward carrying the trip pawl (#96) inward. The trip pawl engages the cog on the platter and auto cycle is initiated. This process



continues until the last record is completed. At this time the stop lever (#129) engages the vertical extension of the pickup lever (#170) which holds the tonearm over the rest until the cycle is completed. The tonearm lowers into the rest and the unit switches off.

#### VARIABLE PITCH CONTROL

The variable pitch control allows the speed of the platter to be increased or decreased. Variable speed is achieved by expanding or contracting the pulley which works as follows. The pitch control knob (#177) is connected to an idler pulley (#171) through a belt (#179). A second, smaller belt (#170) is also connected to the idler pulley and when the pitch control knob is rotated toward either plus (+) or minus (-) this motion is transmitted to the idler pulley. As the idler pulley rotates either clockwise or counter-clockwise, the smaller belt causes the lift pulley (#183) to turn. The lift pulley rotates up or down on a threaded screw. As the lift pulley is raised, (by turning the pitch control toward +), the pulley expander is driven upward inside the motor pulley (#187). This increases the circumference of the pulley (#187) thus increasing platter speed. Lowering the lift pulley (by turning the pitch control toward -) allows the pulley expander to lower, decreasing the circumference of the motor pulley and, in turn, decreasing platter speed.

## GENERAL DISASSEMBLY INSTRUCTIONS

The exploded view provides useful illustrations which, in most cases, will answer your questions regarding disassembly. We list below some general disassembly instructions:

Top Cover - The steps for disassembling the top cover have been coded to the diagram provided. Before disassembling be certain to disconnect the unit from the power supply.

- A. Remove the stylus.
- B. Remove the counterbalance weight.
- C. Remove the platter. Instructions for removing the platter are in the Owners Manual.
- D. Use a No. .050 Allen key to loosen the screws which hold the pickup rest and record support in place. Only changer turntables have the record support and in later production units the record support plugs in.
- E. Use a small screwdriver and lift up the tonearm slot cover located directly under the rear of the tonearm. This cover is held in place by four tabs.
- F. Remove the anti-skate knob by grasping and lifting straight up.
- G. There are eight 3/16" hex slotted screws located on the underside of the unit which must be removed. One of the screws is located under the audio cables, which must be unplugged.

- H. Early production units have a one piece aluminum cue knob/lever, later production units have a round cue lever with a press on knob.

If the unit has a one piece cue lever the control trim must be removed. Lift the edges of the trim until it is free, rotate the trim 90° and lift from the cue lever. If the trim is bent when removed contact B.I.C/Avnet, Westbury, N.Y. 11590 and a replacement trim will be sent no charge. (See Ref. No. 9 on the exploded view for correct replacement part number.)

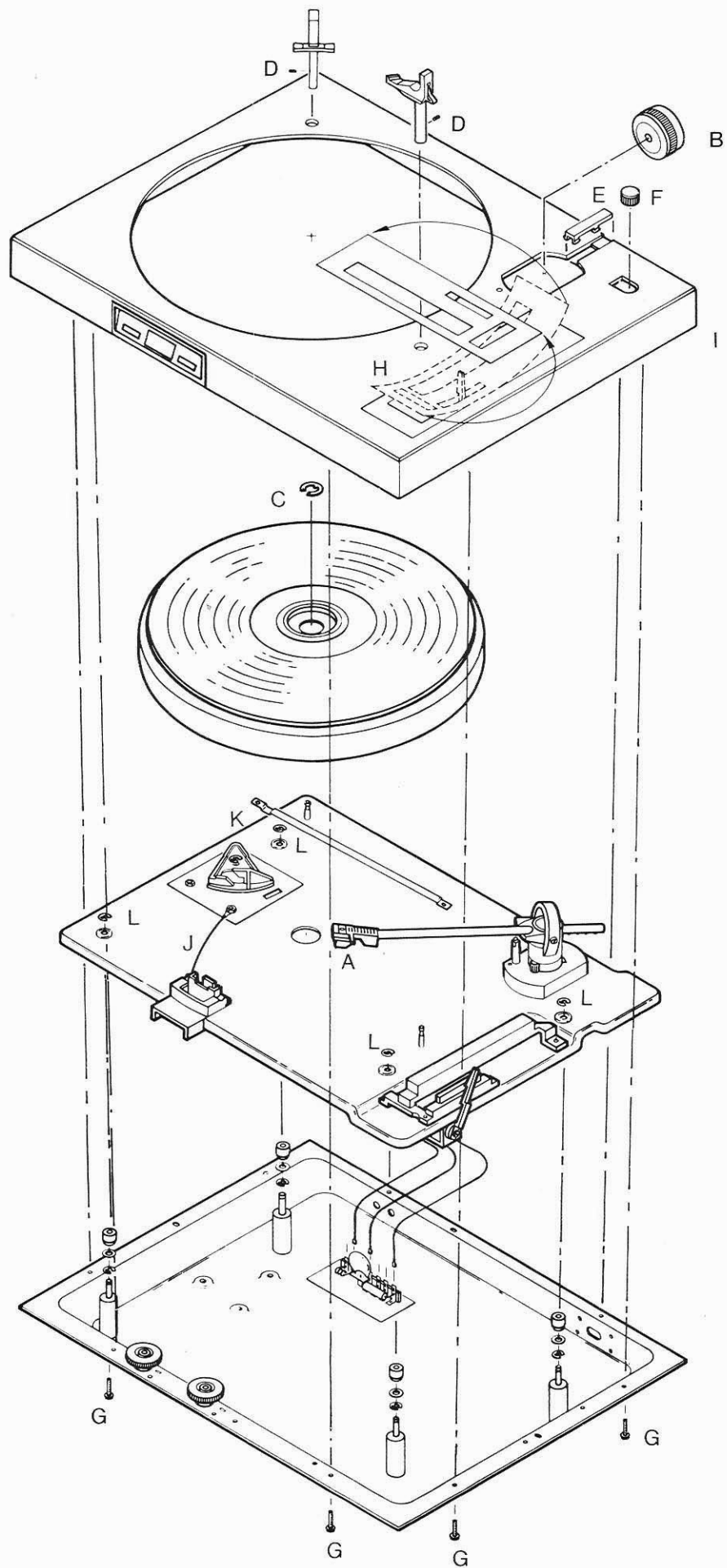
It is not necessary to remove the control trim from units with a pressure fit cue knob. Simply grasp the cue knob and pull straight up to remove the knob from the cue lever.

- I. Lift the rear edge of the top cover until you can slide it slightly forward to clear the pitch control and viewing angle knobs. The tonearm can then be eased through the hole in the top cover by lifting the cover and moving it forward.

#### Sub-chassis

- J. Disconnect the green ground wire running from the neon lamp to the motor plate at the motor plate. Later units have the ground on the terminal strip.
- K. Lift the red speed cam and slide the speed change lever out from under the cam. Pivot the speed change lever and remove it from the speed change rod.

- L. Remove the four "c" clips holding the sub-chassis to the bottom pan. The sub-chassis can be lifted up. The AC wiring will be exposed. Make certain the unit is unplugged.



ADJUSTMENTS

CUE BRAKE PIN - The brake pin eliminates drift when cueing or during automatic cycle and has been pre-set. In certain cases, however, depending upon the type cartridge installed, it may be necessary to re-adjust the brake pin. If the brake pin is disengaging too soon, the tonearm will move to the right when cueing or just before landing on the record. If the brake pin is releasing too late, the stylus will pop two or three times when landing.

The adjustment should be performed as follows:

1. Set the anti-skate to 3 grams and the stylus pressure to 1 gram. This will allow closer observation of when the brake pin releases.
2. Cue up the tonearm and place it between the edge of the platter and the pickup rest. Cue down the arm and observe the point at which the stylus moves to the right. The arm should swing to the right just as the stylus tip passes the top surface of the mat.

If the arm moves to the right too soon, place a wrench over the two flats at the top of the lift pin (#43) and turn the lift pin clockwise, if the brake pin is releasing too late turn the lift pin counterclockwise. As this adjustment is being made, check the tonearm pickup height and re-adjust as necessary.

( The lift pin is the silver colored pin that lifts the tonearm gimbal during cue.)

REPACKING THE CUE MECHANISM

The lift pin (#43) is coated with silicon compound which may, after a period of time, have to be replenished. The procedure for doing this is as follows:

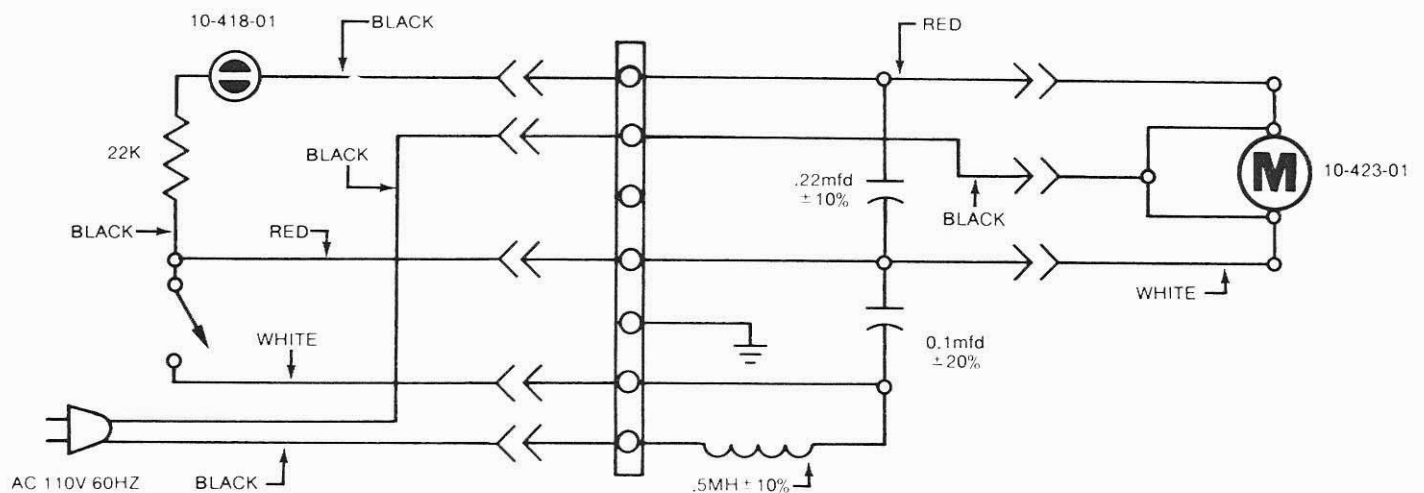
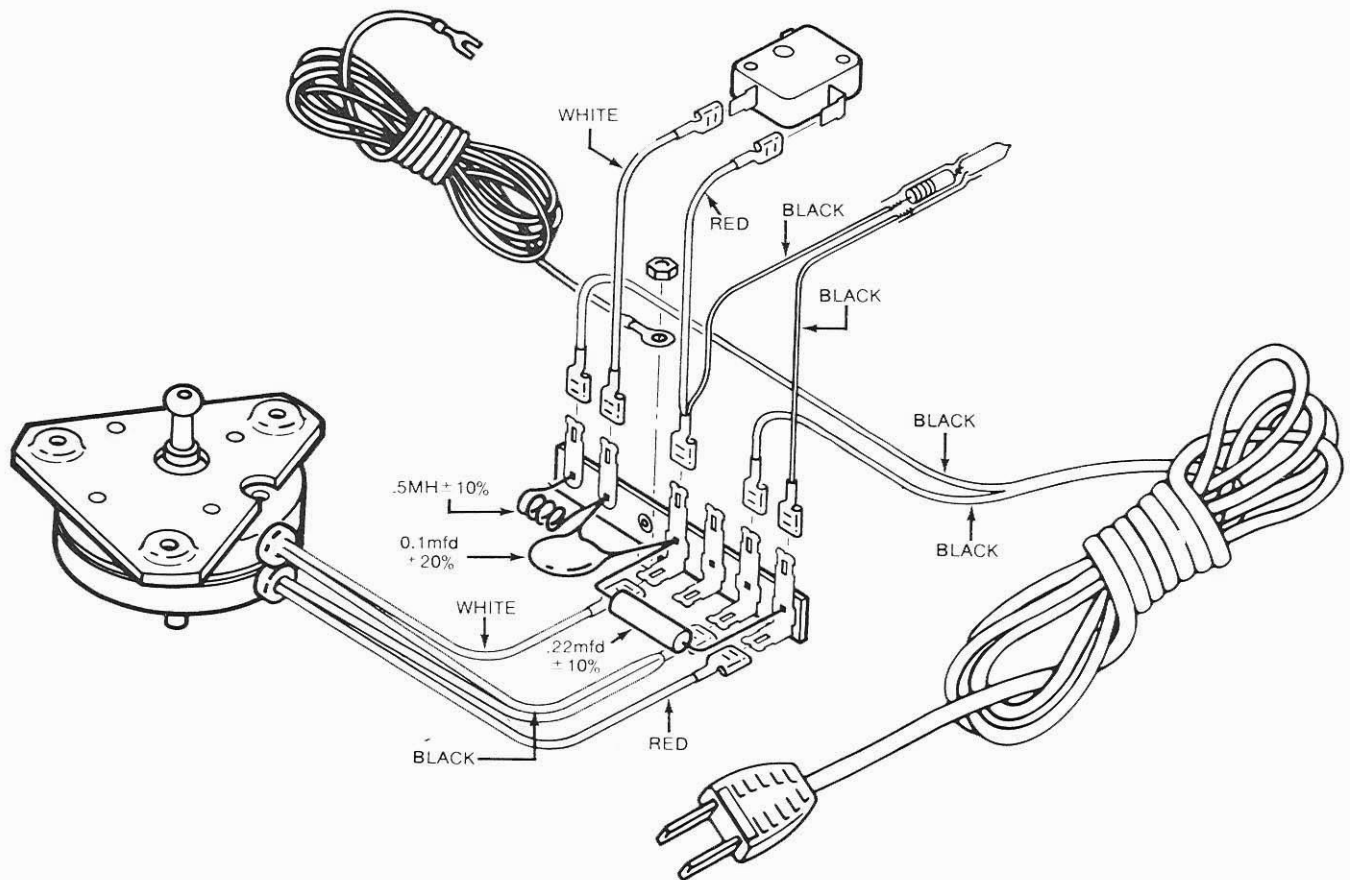
1. Remove or protect the stylus.
2. Loosen the left hand pivot screw (#16 for 911-912C or #197 for 914-914C) to free the tonearm from the gimbal, (The stylus pressure spring on the 914 and 914C may become disconnected.) Slide the tonearm back to clear the lift pin.
3. There are two flats on the cue cylinder (#34). Place a piece of tape around the flats to prevent scratching and use a 9/32" wrench to loosen the cylinder. Unscrew the cylinder to expose the lift pin (#43).
4. Clean the lift pin and the inside of the cue cylinder with alcohol to remove all the old silicon compound. Recoat the lift pin and the inside of the cylinder with fresh compound. Only exact factory replacement silicon compound should be used.
5. Re-install the cue cylinder but do not overtighten. Any excess compound can be wiped off the outside of the cue cylinder.
6. Re-assemble the tonearm in the pivot. Make certain the stylus pressure spring is reconnected on the 914 and 914C.

MOTOR PULLEY HEIGHT - The height of the motor pulley is pre-set at the factory. If the pulley is changed or removed the correct height must be re-set. To do this, rotate the pitch control knob toward minus (-) as far as it will go. Adjust the motor pulley so that the top surface of the pulley is flush with the top surface of the speed change cam (#192). Use a 1/16 Allen key to secure the pulley set screw (#188) to the motor shaft. Recheck the pulley height.



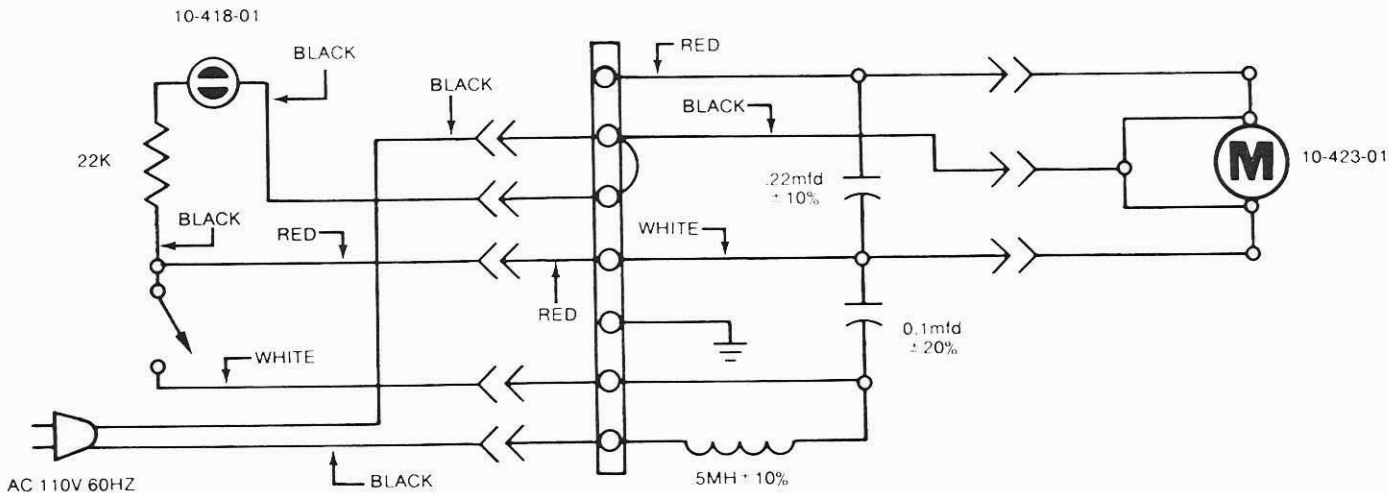
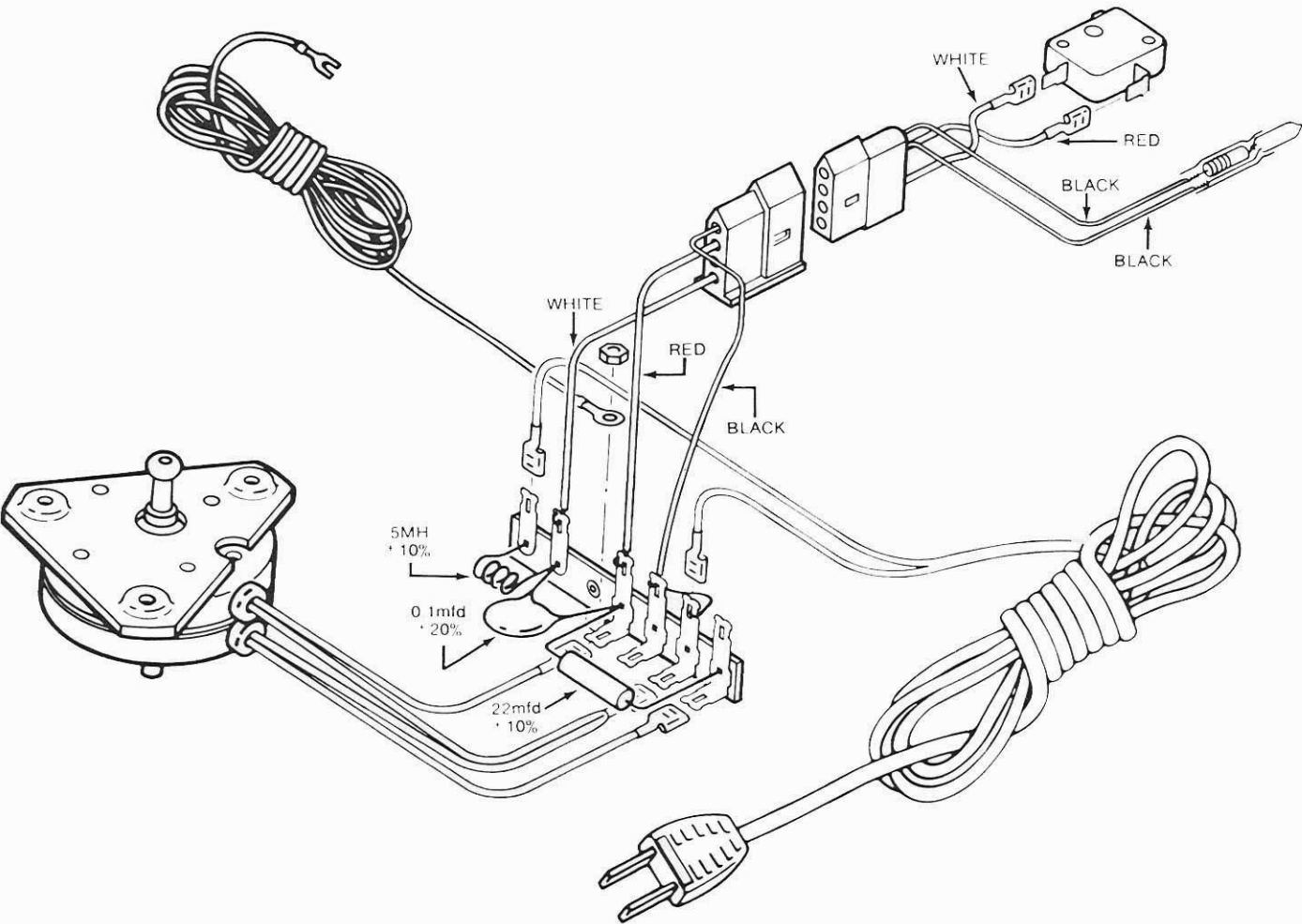
# MODEL 911-914C

## ELECTRICAL WIRING Earlier Version



MODEL 911-914C

ELECTRICAL WIRING  
Later Version



## LUBRICATION

All of the pivot points and bearing surfaces have been lubricated at the factory and will seldom, if ever, require lubrication.

Listed below are the points of lubrication and the recommended lubricants. There are, however, a few important procedures which should be carefully followed.

1. Before applying lubrication, clean off as much of the old lubricant as possible with a clean, lint-free cloth saturated in alcohol.
2. Apply lubrication sparingly; excessive lubrication will accumulate dust, congeal, and cause problems at a later date.
3. Use only lubricants recommended.
4. Take care not to contaminate the drive surfaces which consist of motor pulley, inner rim of the platter and the drive belt. If this happens thoroughly clean these parts with alcohol. Replace the belt if necessary.

## LUBRICATE ONLY THE POINTS LISTED BELOW

Molybdenum Gear Oil # 90 - Part No. 29-004-01 is used on:

T/T Bore - Ref. # 3

T/T Bearings - Ref. # 101 (912C/914C Only)

Silicon Compound - Part No. 29-395-01 is used on:

Lift Pin - Ref. # 43

Cue Cylinder - Ref. # 34

Petroleum Jelly - is used on:

Point of pivot between Speed Change Lever (#54) and Speed Change Rod (#82)

Slot for program Slide Detent (# 89)

LUBRICATION - Con't

Anti-skate Lever (#73) pivot point

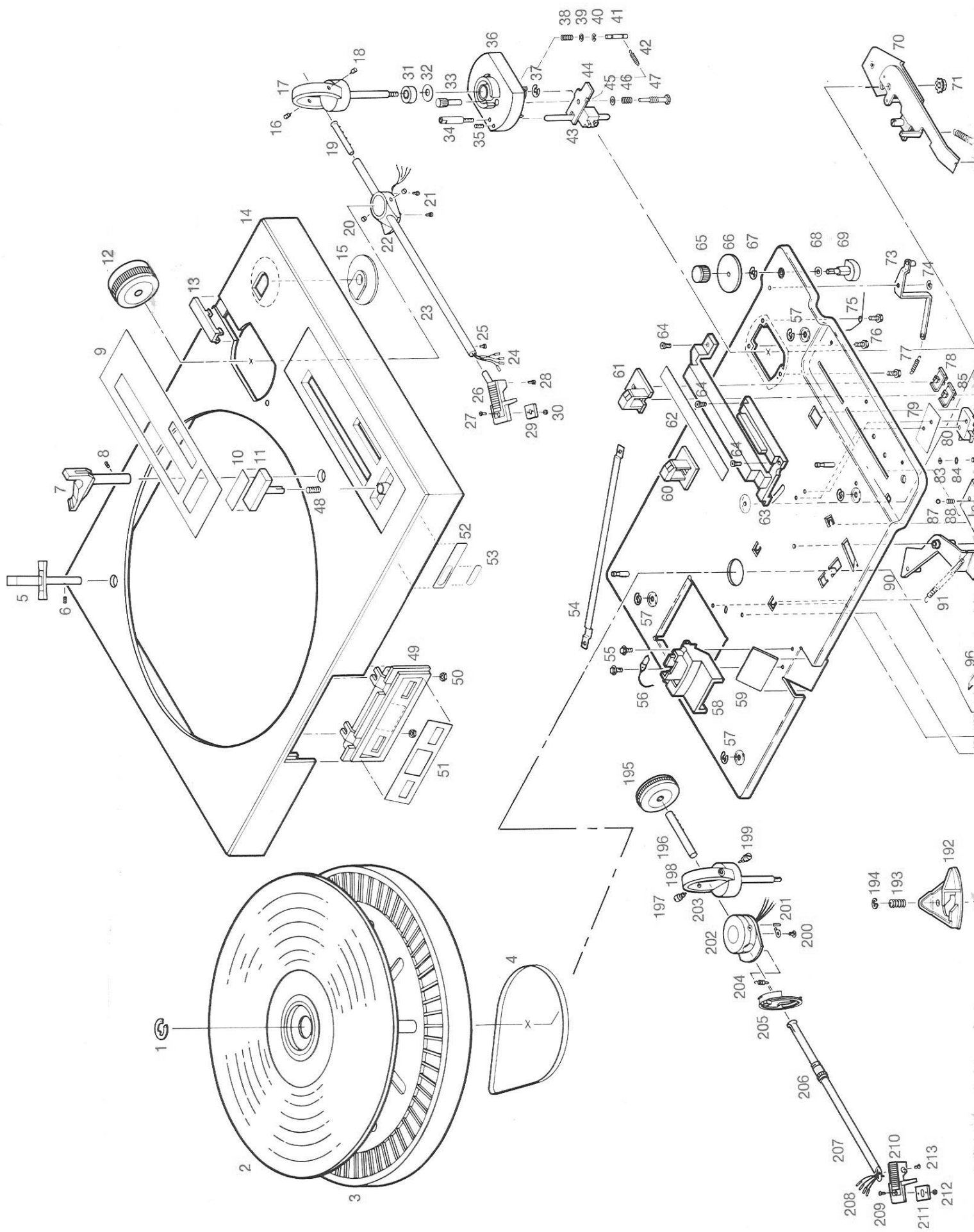
Program Link (#86) point of contact through sub-chassis slot, along edges of slot

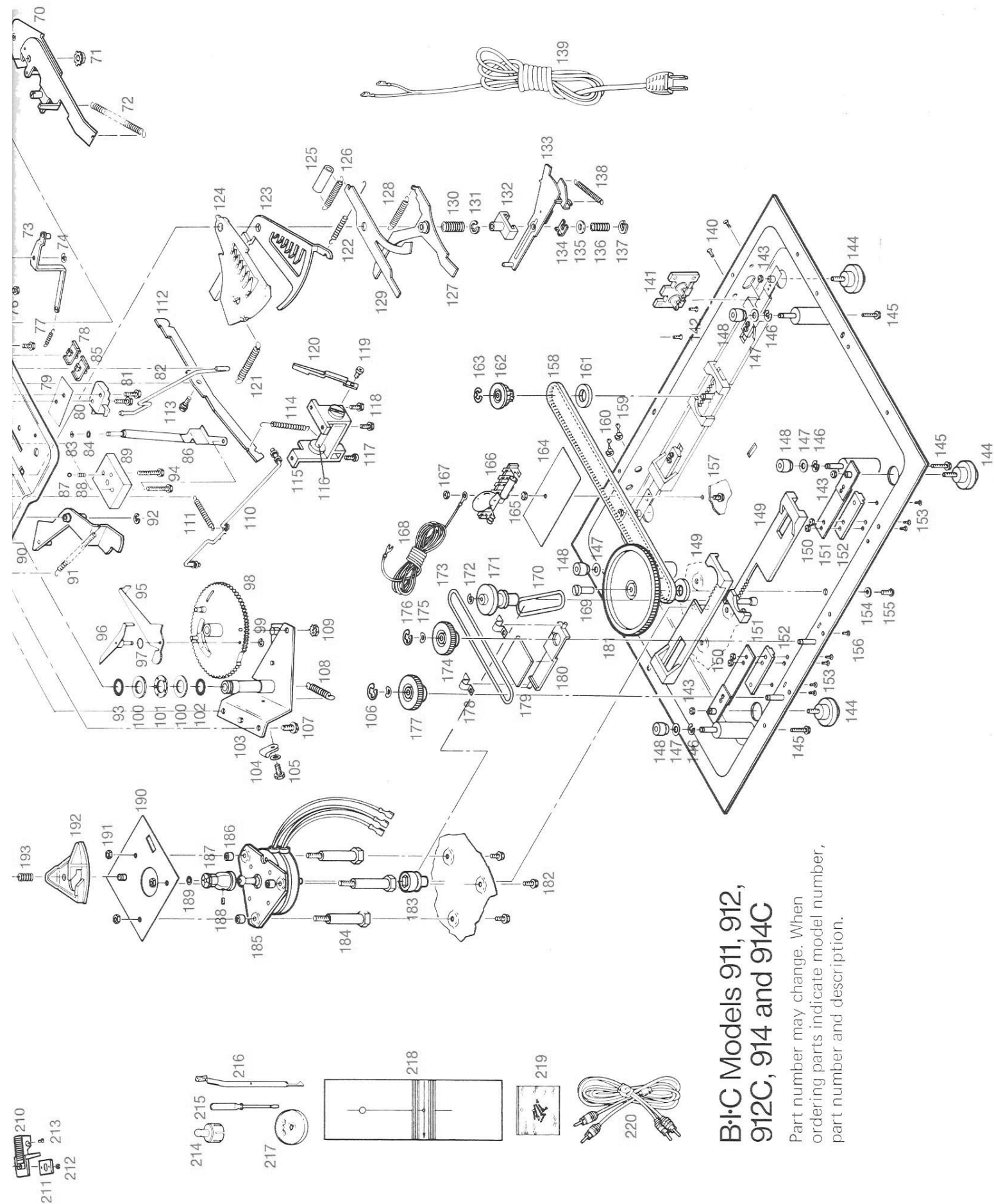
Drive Plate stud (#133)

Eccentric track on Main Cam Gear (#98)

Spindle Housing Lever (#103) pivot areas ( 912 - 914C only)

Rate Adjuster (#149) contact points with bottom pan





## BIC Models 911, 912, 912C, 914 and 914C

Part number may change. When ordering parts indicate model number, part number and description.

# Official Parts List | B-I-C Models 911, 912, 912C, 914 and 914C (Continued)

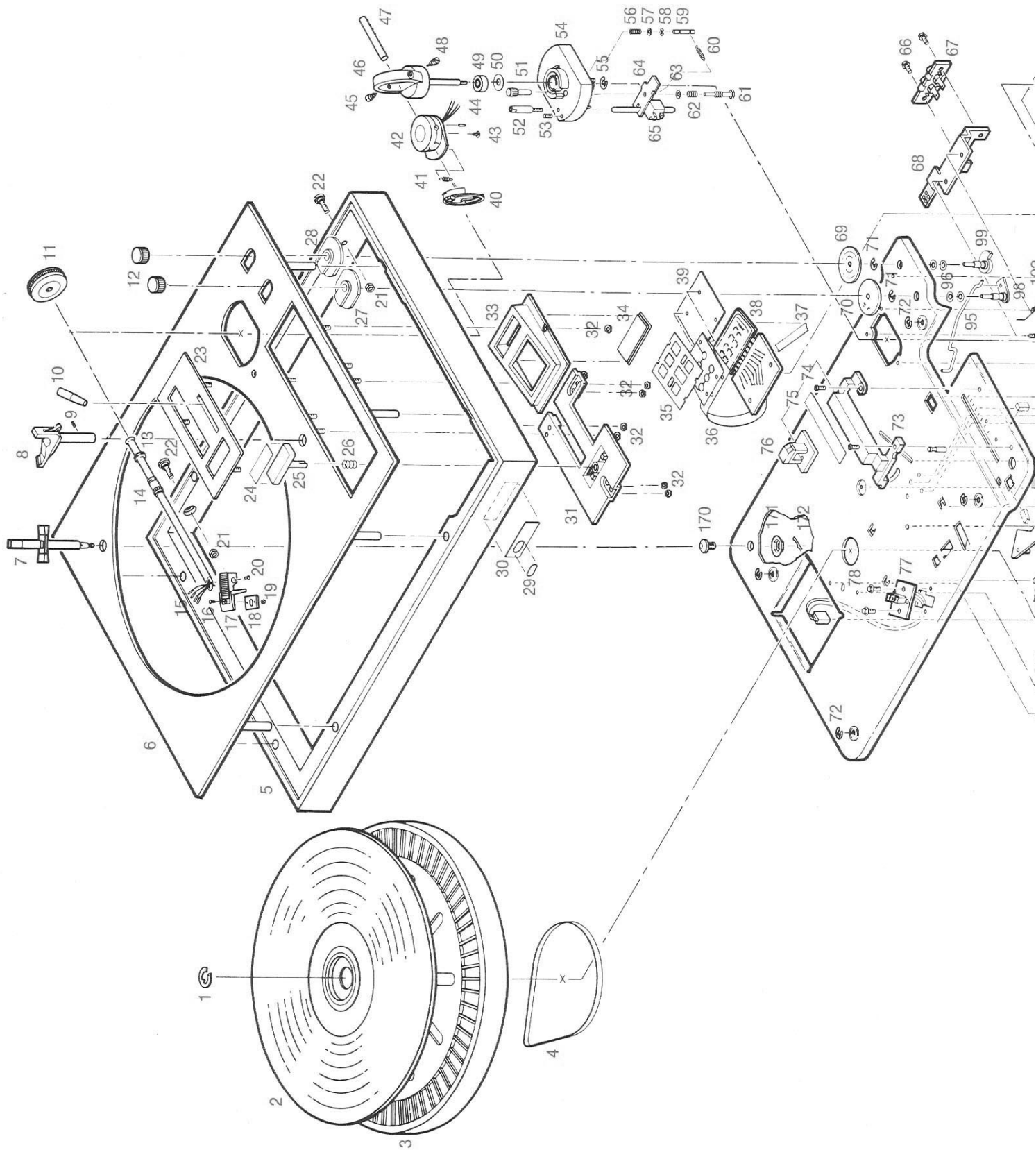
REF. NO.	911 PART NO.	912 PART NO.	912C PART NO.	914 PART NO.	914C PART NO.	DESCRIPTION
110	—	41-015-01	41-015-01	41-015-01	41-015-01	Reject rod
111	—	40-286-01	40-286-01	40-286-01	40-286-01	Spring—reject rod
112	38-122-01	38-122-01	38-122-01	38-122-01	38-122-01	Cue link
113	20-268-02	20-268-02	20-268-02	20-268-02	20-268-02	Screw—cue link
114	38-122-01	38-122-01	38-122-01	38-122-01	38-122-01	Spring—cue link
115	37-205-01	37-205-01	37-205-01	37-205-01	37-205-01	Cue mounting Bkt.
116	37-204-01	37-204-01	37-204-01	37-204-01	37-204-01	Cue spool
117	20-013-02	20-013-02	20-013-02	20-013-02	20-013-02	Screw
118	20-187-01	20-187-01	20-187-01	20-187-01	20-187-01	Screw
119	20-064-01	20-064-01	20-064-01	20-064-01	20-064-01	Cue lever
120	36-045-01	36-045-01	36-045-01	36-045-01	36-045-01	Spring—program plate
121	—	40-031-01	40-031-01	40-031-01	40-031-01	Spring—secondary plate
122	—	40-032-01	40-032-01	40-032-01	40-032-01	Secondary program plate
123	—	37-199-02	37-199-02	37-199-02	37-199-01	Program plate
124	—	37-198-02	37-198-01	37-198-02	37-198-01	Sleeve
125	—	17-567-02	17-567-02	17-567-02	17-567-02	Spring—stop lever
126	—	40-564-01	40-564-01	40-564-01	40-564-01	Stop lever
127	—	38-137-01	38-137-01	38-137-01	38-137-01	Spring size selector lever
128	—	40-286-01	40-286-01	40-286-01	40-286-01	Size selector lever
129	—	10-309-01	10-309-01	10-309-01	10-309-01	Spring—compression
130	—	40-283-01	40-283-01	40-283-01	40-283-01	"c" clip
131	—	23-292-01	23-292-01	23-292-01	23-292-01	Drive plate bracket
132	—	37-265-01	37-265-01	37-265-01	37-265-01	Drive plate
133	—	10-307-01	10-307-01	10-307-01	10-307-01	Blas plate
134	—	38-541-01	38-541-01	38-541-01	38-541-01	Fibre washer
135	—	22-560-01	22-560-01	22-560-01	22-560-01	Spring—override
136	—	40-155-01	40-155-01	40-155-01	40-155-01	"c" clip
137	—	23-292-01	23-292-01	23-292-01	23-292-01	Spring—drive plate
138	—	40-371-01	40-371-01	40-371-01	40-371-01	Line cord
139	10-386-01	10-386-01	10-386-01	10-386-01	10-386-01	Screw
140	20-181-01	20-181-01	20-181-01	20-181-01	20-181-01	Phone socket
141	10-320-01	10-320-01	10-320-01	10-320-01	10-320-01	Nut—VIA foot (4)
142	20-293-03	20-293-03	20-293-03	20-293-03	20-293-03	VIA foot (4)
143	39-227-01	39-227-01	39-227-01	39-227-01	39-227-01	Transit screw (4)
144	10-420-01	10-420-01	10-420-01	10-420-01	10-420-01	"c" clip (4)
145	39-144-01	39-144-01	39-144-01	39-144-01	39-144-01	Washer (4)
146	23-180-01	23-180-01	23-180-01	23-180-01	23-180-01	Grommet (4)
147	22-023-01	22-023-01	22-023-01	22-023-01	22-023-01	Rate adjuster
148	37-182-01	37-182-01	37-182-01	37-182-01	37-182-01	Nut
149	37-188-01	37-188-01	37-188-01	37-188-01	37-188-01	VIA spring assy.
150	21-280-01	21-280-01	21-280-01	21-280-01	21-280-01	Mounting block
151	10-316-01	10-316-01	10-316-01	10-316-01	10-316-01	Screw
152	37-278-01	37-278-01	37-278-01	37-278-01	37-278-01	Washer
153	20-293-02	20-293-02	20-293-02	20-293-02	20-293-02	Screw—VIA wheel
154	22-012-01	22-012-01	22-012-01	22-012-01	22-012-01	Screw—reflector Bkt.
155	20-047-01	20-047-01	20-047-01	20-047-01	20-047-01	Screw—terminal strip
156	20-268-02	20-268-02	20-268-02	20-268-02	20-268-02	Bel—VIA
157	20-187-01	20-187-01	20-187-01	20-187-01	20-187-01	Heyco—line cord
158	27-030-01	27-030-01	27-030-01	27-030-01	27-030-01	Spacer—rate adi. pulley
159	12-057-04	12-057-04	12-057-04	12-057-04	12-057-04	Timing pulley
160	12-057-01	12-057-01	12-057-01	12-057-01	12-057-01	"c" clip
161	38-201-01	38-201-01	38-201-01	38-201-01	38-201-01	Insulator
162	37-258-01	37-258-01	37-258-01	37-258-01	37-258-01	Terminal strip assy.
163	23-180-01	23-180-01	23-180-01	23-180-01	23-180-01	Capacitor—22 mfd.
164	28-192-01	28-192-01	28-192-01	28-192-01	28-192-01	Capacitor—pop filter
165	21-280-01	21-280-01	21-280-01	21-280-01	21-280-01	Choke
166	10-162-10	10-162-10	10-162-10	10-162-10	10-162-10	
	14-374-01	14-374-01	14-374-01	14-374-01	14-374-01	
	12-043-02	12-043-02	12-043-02	12-043-02	12-043-02	

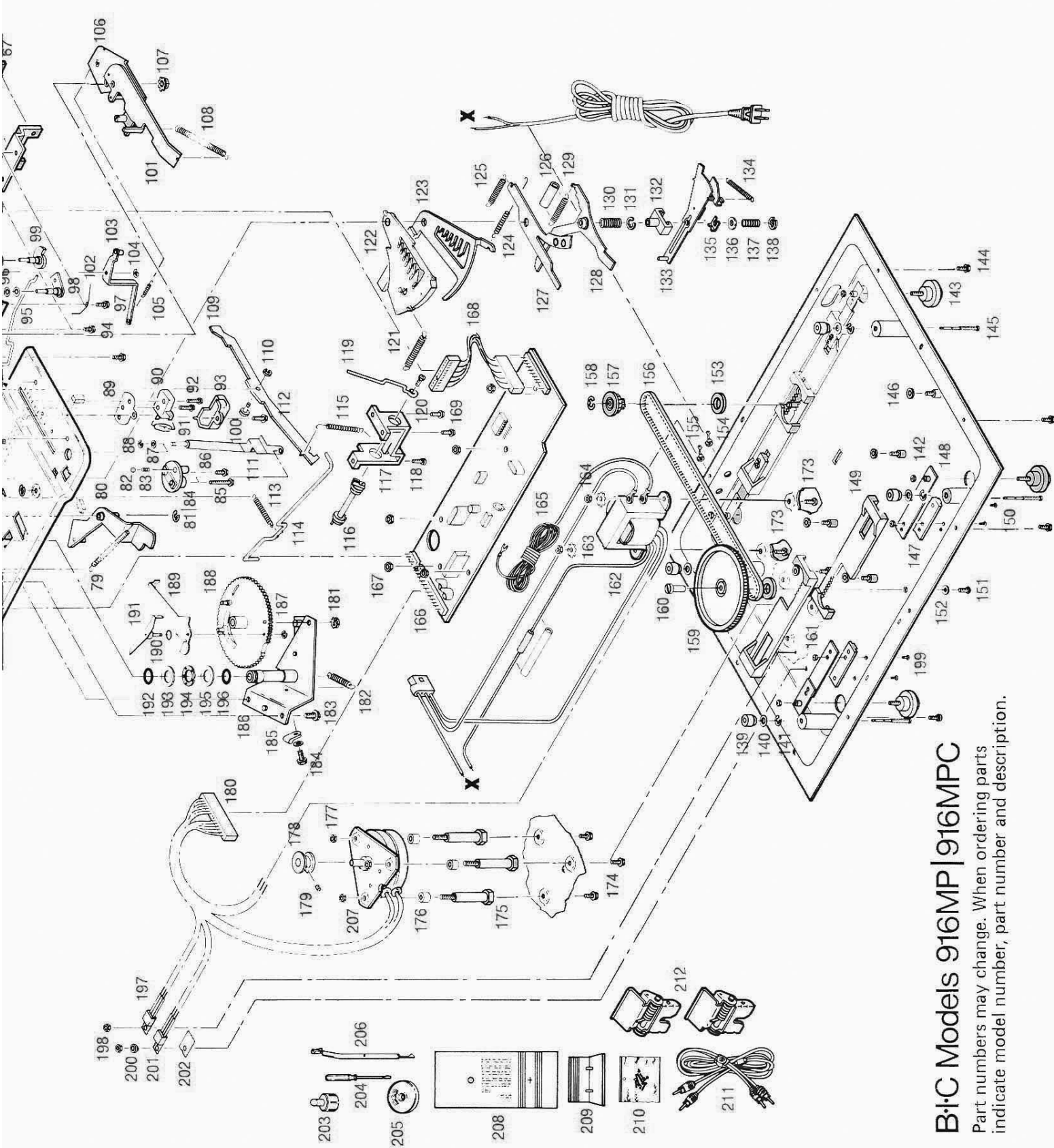


Official Parts List | B·i·C Models 911, 912, 912C, 914 and 914C

REF. NO.	911 PART NO.	912 PART NO.	912C PART NO.	914 PART NO.	914C PART NO.	DESCRIPTION
1	—	37-302-01	37-143-01	—	37-143-01	T/T "c" clip
2	37-302-01	—	37-267-01	37-302-01	37-267-01	T/T mat
3	10-366-02	10-366-02	38-385-01	—	38-385-01	Trim ring-sm (not shown)
4	37-130-01	37-130-01	38-180-01	10-366-02	38-180-01	Trim ring-ig (not shown)
5	—	—	37-130-01	37-130-01	37-130-01	T/T w/mat
6	—	—	20-060-01	—	20-060-01	Drive belt
7	10-319-01	10-319-01	10-319-01	10-319-01	10-319-01	Record support
8	20-060-01	20-060-01	20-060-01	20-060-01	20-060-01	Set screw
9	38-159-01	38-161-01	38-160-01	38-161-02	38-160-02	Tonearm rest
10	38-162-02	38-162-01	38-162-01	38-162-01	38-162-01	Control escutcheon insert
11	10-393-02	10-393-01	10-393-01	10-393-01	10-393-01	Trim-play key
12	10-370-01	10-370-01	10-370-01	10-382-01	10-382-01	Play key w/trim
13	37-268-02	37-268-02	37-268-01	37-268-02	37-268-01	Counterbalance wgt.
14	10-322-07	10-322-07	10-322-06	10-322-07	10-322-06	T/A slot cover
15	37-251-01	37-251-01	37-251-01	37-251-01	37-251-01	Temp trim
16	10-368-01	10-368-01	10-368-01	—	—	Lens, anti-skate
17	10-369-01	10-369-01	10-369-01	—	—	Pivot pin—fixed
18	38-155-01	38-155-01	38-155-01	—	—	Gimbal
19	37-309-01	37-309-01	10-367-01	—	—	Trim-gimbal (not shown)
20	10-327-01	10-327-01	10-327-01	—	—	Pivot pin—floating
21	20-484-01	20-484-01	20-484-01	—	—	Plug-T/A tube
22	37-254-01	37-254-01	37-254-01	—	—	Screw (2)
23	38-146-01	38-146-01	38-146-01	—	—	Pivot block
24	10-321-01	10-321-01	36-037-01	—	—	Trim—pivot blk (not shown)
25	20-268-01	10-085-01	10-085-01	—	—	Tonearm tube
26	10-372-02	10-372-02	10-372-02	—	—	T/A complete (nos. 16-30)
27	39-220-01	39-220-01	39-220-01	—	—	Harness
28	23-256-01	22-027-01	22-027-01	—	—	Head shell assy.
29	20-063-01	20-063-01	20-063-01	—	—	(nos. 26, 27, 29, 30)
30	21-005-01	21-005-01	21-005-01	—	—	Bkt. mtg. screw
31	27-366-01	27-366-01	27-366-01	27-366-01	27-366-01	Washer (not shown)
32	22-007-01	22-007-01	22-007-01	22-007-01	22-007-01	"c" clip (not shown)
33	37-250-01	37-250-01	37-250-01	37-250-01	37-250-01	Screw
34	39-172-01	39-172-01	39-172-01	39-172-02	39-172-02	Cart. mtg. Bkt. & nut assy.
35	20-263-01	20-263-01	20-263-01	20-263-01	20-263-01	Bearing
36	36-025-02	36-025-02	36-025-02	36-025-01	36-025-01	Washer (as required)
37	37-525-01	23-525-01	23-525-01	23-525-01	23-525-01	Cue rate knob
38	40-257-01	40-257-01	40-257-01	40-257-01	40-257-01	Cylinder—lift pin
39	22-343-01	22-343-01	22-343-01	22-343-01	22-343-01	P/U hdt. adj. screw
40	23-543-01	23-543-01	23-543-01	23-543-01	23-543-01	P/U base
41	39-139-01	39-139-01	39-139-01	39-139-01	39-139-01	"c" clip
42	40-493-01	40-493-01	40-493-01	40-493-01	40-493-01	Spring—brake rod
43	10-062-02	10-062-02	10-062-02	10-062-02	10-062-02	Washer—brake rod
44	38-563-01	38-563-01	38-563-01	38-563-01	38-563-01	"c" clip—brake rod
45	22-003-01	22-003-01	22-003-01	22-003-01	22-003-01	Brake rod
46	40-258-01	40-258-01	40-258-01	40-258-01	40-258-01	Spring—brake bias
47	39-369-01	39-369-01	39-369-01	39-369-01	39-369-01	Lift pin & pivot assy.
48	40-035-01	40-035-01	40-035-01	40-035-01	40-035-01	Rocker plate
49	37-294-02	37-294-01	37-294-01	37-294-01	37-294-01	Washer—rocker plate
50	21-282-01	21-282-01	21-282-01	21-282-01	21-282-01	Screw—rocker plate
51	38-171-01	38-171-01	38-171-01	38-171-01	38-171-01	Return spring
						Strobe window
						Palnut (2)
						Trim—strobe window
52	38-153-01	38-153-01	38-153-01	38-153-01	38-153-01	Logo moulding
53	38-152-01	38-152-01	38-152-01	38-152-01	38-152-01	B·i·C Logo
54	38-138-01	38-138-01	38-138-01	38-138-01	38-138-01	Speed change lever
55	20-181-01	20-181-01	20-181-01	20-181-01	20-181-01	Screw (2)
56	10-418-01	10-418-01	10-418-01	10-418-01	10-418-01	Neon light
57	23-002-01	23-002-01	23-002-01	23-002-01	23-002-01	"c" clip
58	37-341-01	37-341-01	37-341-01	37-341-01	37-341-01	Strobe shroud
59	27-032-02	27-032-02	27-032-02	27-032-02	27-032-02	Mirror
60	—	37-208-01	37-208-01	37-208-01	37-208-01	Program slider
61	37-209-01	37-209-01	37-209-01	37-209-01	37-209-01	Speed/size slider
62	38-158-01	38-158-01	38-158-01	38-158-01	38-158-01	Trim
63	37-211-01	37-211-01	37-211-01	37-211-01	37-211-01	Moulding—program/speed
64	20-013-02	20-013-02	20-013-02	20-013-02	20-013-02	Screw
65	10-388-01	10-388-01	10-388-01	10-388-01	10-388-01	Anti-skate knob
66	10-388-01	10-388-01	10-388-01	10-388-01	10-388-01	Anti-skate disc
67	23-180-01	23-180-01	23-180-01	23-180-01	23-180-01	"c" clip
68	38-073-01	38-073-01	38-073-01	38-073-01	38-073-01	Washer—bowed
69	10-317-01	10-317-01	10-317-01	10-317-01	10-317-01	Anti-skate cam
70	—	10-308-01	10-308-01	10-308-01	10-308-01	P/U lever
71	—	21-426-01	21-426-01	21-426-01	21-426-01	Nut
72	10-310-01	40-179-01	40-179-01	40-179-01	40-179-01	Spring
73	23-180-01	10-310-01	10-310-01	10-310-01	10-310-01	Anti-skate lever
74	41-003-01	41-003-01	41-003-01	41-003-01	41-003-01	"c" clip
75	20-187-01	20-187-01	20-187-01	20-187-01	20-187-01	Lock wire
76	40-091-01	40-091-01	40-091-01	40-091-01	40-091-01	Screw
77	37-559-02	37-559-02	37-559-02	37-559-02	37-559-02	Anti-skate spring
78	28-080-01	28-080-01	28-080-01	28-080-01	28-080-01	Slide fastener
79	12-133-01	12-289-01	12-289-01	12-289-01	12-289-01	Switch insulator
80	20-187-01	20-187-01	20-187-01	20-187-01	20-187-01	A.C. switch
81	41-018-01	41-018-01	41-018-01	41-018-01	41-018-01	Screw—switch
82	23-256-01	23-256-01	23-256-01	23-256-01	23-256-01	Speed change rod
83	—	38-154-01	38-154-01	38-154-01	38-154-01	"c" clip
84	—	37-273-01	37-273-01	37-273-01	37-273-01	Nylon washer
85	—	10-312-01	10-312-01	10-312-01	10-312-01	Slide fastener
86	—	27-036-01	27-036-01	27-036-01	27-036-01	Program link
87	—	40-098-01	40-098-01	40-098-01	40-098-01	Ball bearing
88	—	37-203-01	37-203-01	37-203-01	37-203-01	Spring
89	—	37-202-01	37-202-01	37-202-01	37-202-01	Slider detent
90	—	40-033-01	40-033-01	40-033-01	40-033-01	Repeat lever
91	—	37-113-02	37-113-02	37-113-02	37-113-02	Spring
92	—	20-187-01	20-187-01	20-187-01	20-187-01	"c" clip
93	—	10-171-01	10-171-01	10-171-01	10-171-01	"o" ring
94	—	10-089-01	10-089-01	10-089-01	10-089-01	Screw
95	—	37-001-01	37-001-01	37-001-01	37-001-01	Trip plate
96	—	10-091-01	10-091-01	10-091-01	10-091-01	Trip pawl
97	—	23-239-01	23-239-01	23-239-01	23-239-01	"o" ring
98	—	—	—	—	—	"c" clip
99	—	—	—	—	—	Can gear assy.
100	—	—	—	—	—	(includes nos. 95-99)
101	—	—	—	—	—	"c" clip
102	—	—	—	—	—	Washer
103	10-012-06	10-012-05	10-012-07	10-012-05	10-012-07	Bearing
104	12-409-01	12-409-01	12-409-01	12-409-01	12-409-01	"o" ring
105	20-290-01	20-290-01	20-290-01	20-290-01	20-290-01	Spindle housing
106	23-180-01	23-180-01	23-180-01	23-180-01	23-180-01	Strain relief
107	20-181-01	20-181-01	20-181-01	20-181-01	20-181-01	Screw w/washer
108	—	—	—	—	—	"c" clip
109	21-178-01	21-178-01	21-178-01	21-178-01	21-178-01	Screw
						Spring
						Nut w/lock washer







# B+C Models 916MP|916MPC

Part numbers may change. When ordering parts indicate model number, part number and description.

# Official Parts List | B+C Models 916MP and 916MPC

REF. NO.	916 MP PART NO.	DESCRIPTION	916 MP PART NO.	DESCRIPTION	REF. NO.	916 MP PART NO.	DESCRIPTION	916 MPC PART NO.	DESCRIPTION	REF. NO.	916 MP PART NO.	DESCRIPTION	916 MPC PART NO.	DESCRIPTION
1	—	T/T "c" clip	37-143-01	T/T "c" clip	106	10-324-01	Cue rate knob	10-324-01	Adjusting plate	161	21-280-01	Nut	21-280-01	Nut
2	37-302-01	T/T mat	37-172-02	Cylinder — lift pin	107	21-426-01	P/U rgt. adj. screw	21-426-01	Nut	162	10-428-01	Transformer	10-428-01	Transformer
3	—	Trim ring-sm (not shown)	20-263-01	P/U base	108	40-179-01	"c" clip	40-179-01	Spring	163	22-026-01	Washer	22-026-01	Washer
4	10-366-04	Trim ring-lg (not shown)	36-025-01	"c" clip	109	38-122-01	Spring — brake rod	38-122-01	Cue link	164	21-280-01	Nut	21-280-01	Nut
5	37-191-01	Stroke mask (not shown)	23-525-01	Spring — brake rod	110	23-001-01	"c" clip	23-001-01	Program link	165	10-106-01	Speed control board	10-106-01	Speed control board
6	20-293-03	Screw-strobe mask (8)	22-343-01	Washer — brake rod	111	10-312-01	"c" clip	10-312-01	Screw — switch cover	166	10-376-01	Harness	10-376-01	Harness
7	37-130-01	Drive belt	22-343-01	"c" clip — brake rod	112	20-033-01	Brake rod	20-033-01	Reject rod	167	21-280-01	Nut — speed board (5)	21-280-01	Nut — speed board (5)
8	10-363-01	Base	23-543-01	Spring — brake bias	113	40-286-01	Spring — rocker plate	40-286-01	Cue spool	168	10-425-01	Base — plug-in support	10-425-01	Base — plug-in support
9	10-329-02	Top plate	39-139-01	Screw — rocker plate	114	41-015-01	Washer — rocker plate	41-015-01	Cue bracket	169	20-013-02	Nut	20-013-02	Nut
10	10-329-02	Record support	39-369-01	Spring — rocker plate	115	37-386-01	Spring — rocker plate	37-386-01	Cue lever	170	—	Spring clip	—	Spring clip
11	10-319-01	Tonearm rest	40-258-01	Spring — rocker plate	116	37-205-01	Spring — rocker plate	37-205-01	Screw	171	—	Screw — motor (3)	—	Screw — motor (3)
12	20-060-01	Set screw	22-003-01	Washer — rocker plate	117	20-268-02	Rocker plate	20-268-02	Program plate	172	20-293-02	Spacer	20-293-02	Spacer
13	37-385-02	Knob — cue lever	38-563-01	Lift pin	118	41-023-01	Screw	41-023-01	Secondary program plate	173	20-181-02	Pulley	20-181-02	Pulley
14	10-382-01	CB wgt	10-062-02	Screw	119	20-067-01	Spring	20-067-01	Spring — secondary plate	174	39-156-01	Allen screw	39-156-01	Allen screw
15	10-413-01	Knob — anti-skate/size	20-181-01	Photo socket	120	40-041-01	Spring	40-041-01	Spring — stop lever	175	39-185-01	Connector w/o wires	39-185-01	Connector w/o wires
16	10-371-01	Plug-in tonearm complete (#14, 15, 16, 17, 18, 19, 20)	12-123-01	Phono bracket	121	37-198-02	Stop lever	37-198-02	Sleeve	176	21-178-01	Nut	21-178-01	Nut
17	39-162-01	Locking collar	37-252-02	Anti-skate disc	122	40-032-01	Size selector lever	40-032-01	Stop lever	177	40-294-01	Spring	40-294-01	Spring
18	10-381-01	Tube w/harness	37-252-03	Size select disc	123	40-564-01	Spring — size lever	40-564-01	Size selector lever	178	20-290-01	Screw	20-290-01	Screw
19	39-220-01	Bkt. mtg. screw	23-180-01	"c" clip	124	17-567-02	Compression spring	17-567-02	"c" clip	179	12-409-01	Strain relief	12-409-01	Strain relief
20	10-385-01	P/U head	23-002-01	"c" clip	125	38-137-01	Control molding	38-137-01	Drive plate bracket	180	10-012-05	Spindle housing	10-012-05	Spindle housing
21	37-307-01	Cart. mtg. bkt.	37-271-01	Control molding	126	10-309-01	Screw	10-309-01	Drive plate bracket	181	23-239-01	"c" clip	23-239-01	"c" clip
22	21-005-01	Hex nut	20-013-02	Screw	127	40-286-01	Trim	40-286-01	Spring — drive plate	182	10-091-01	Cam gear assy. (includes os. 187-191)	10-091-01	Cam gear assy. (includes os. 187-191)
23	20-058-01	Screw	38-150-01	Trim	128	20-013-02	Control knob	20-013-02	Bias plate	183	10-171-01	Trip plate	10-171-01	Trip plate
24	21-006-01	Nut (2)	36-123-01	Control knob	129	10-396-01	Screw	10-396-01	Fibre washer	184	37-001-01	"o" ring	37-001-01	"o" ring
25	20-045-01	Shoulder screw (2)	10-396-01	Detector	130	20-181-01	Screw	20-181-01	Spring — override	185	10-089-01	Trip pawl	10-089-01	Trip pawl
26	10-398-01	Control escutcheon	20-181-01	Screw	131	40-033-01	Spring	40-033-01	"c" clip	186	37-175-02	"o" ring	37-175-02	"o" ring
27	38-162-01	Trim — play key	40-033-01	Relect lever	132	37-202-01	Relect lever	37-202-01	Grommet (4)	187	27-177-01	Washer	27-177-01	Washer
28	10-393-01	Play key w/trim	37-202-01	"c" clip	133	23-192-01	"c" clip	23-192-01	Washer (4)	188	27-176-01	Bearing	27-176-01	Bearing
29	40-092-01	Spring	23-180-01	"c" clip	134	22-560-01	Ball bearing	22-560-01	Nut — VIA foot (4)	189	10-427-01	"o" ring	10-427-01	"o" ring
30	37-251-02	Lens — size	27-036-01	Spring, slider detent	135	20-067-02	Screw	20-067-02	VIA foot (4)	190	21-014-01	Regulator	21-014-01	Regulator
31	37-251-02	B+C logo	40-098-01	Screw	136	38-154-01	Nylon washer	38-154-01	Screw (8)	191	20-293-02	Screw	20-293-02	Screw
32	37-251-02	Logo molding	20-067-01	Slider detent	137	20-067-02	Insulator	20-067-02	Transit screw (4)	192	22-030-02	Washer	22-030-02	Washer
33	37-261-02	Display molding	20-067-02	Screw	138	23-180-01	"c" clip	23-180-01	Mounting block	193	10-427-01	Regulator	10-427-01	Regulator
34	37-264-01	Display lens	28-080-01	Screw	139	10-420-01	Capacitor	10-420-01	VIA spring assy.	194	12-141-01	Insulator	12-141-01	Insulator
35	38-184-01	Speed legend	12-289-01	AC switch	140	20-068-01	Screw — AC switch	20-068-01	Rate adjuster	195	39-128-01	Manual spindle — rotating	39-128-01	Manual spindle — rotating
36	12-125-01	Speed control panel	14-001-01	Switch cover	141	37-070-01	Switch cover	37-070-01	Screw	196	27-003-01	Fixing screw	27-003-01	Fixing screw
37	38-206-01	Retainer	20-187-01	Screw	142	20-181-01	Row, size	20-181-01	Spacer — rate adj. pulley	197	37-539-01	Screwdriver	37-539-01	Screwdriver
38	10-432-01	Display w/board	37-070-01	Shoulder washer (4)	143	20-068-01	Bowed washer (4)	20-068-01	Heyco — line cord	198	10-038-01	Automatic spindle	10-038-01	Automatic spindle
39	28-248-01	Panel support	20-181-01	Speed control lever	144	10-308-01	Anti-skate cam	10-308-01	Heyco — grd. lead	199	18-009-05	Motor	18-009-05	Motor
40	37-213-01	Ring — stylus force	41-013-01	Anti-skate cam	145	10-308-01	P/U lever	10-308-01	Timing pulley	200	28-225-01	Gauge — stylus overhang	28-225-01	Gauge — stylus overhang
41	40-093-01	Stylus pressure spring	38-007-01	Stud	146	10-095-01	Bias spring	10-095-01	"c" clip	201	37-364-01	Gauge — 20° tracking angle	37-364-01	Gauge — 20° tracking angle
42	10-378-01	Pivot & tube assy. w/bearing	20-022-01	P/U lever	147	10-310-01	Anti-skate lever	10-310-01	"c" clip	202	17-113-04	Audio cable	17-113-04	Audio cable
43	20-063-01	Screw	10-374-01	Anti-skate lever	148	23-180-01	"c" clip	23-180-01	VIA wheel	203	10-290-04	Hinge (2)	10-290-04	Hinge (2)
44	20-060-01	Allen screw	10-317-01	Anti-skate lever	149	40-040-01	Anti-skate spring	40-040-01	Pivot — VIA wheel	204	27-003-01	Fixing screw	27-003-01	Fixing screw
45	10-384-01	Fixed pivot	39-234-01	Shoulder screw	150	20-293-02	Speed control lever	20-293-02	Spacer — rate adj. pulley	205	37-539-01	45 rpm manual adaptor	37-539-01	45 rpm manual adaptor
46	10-380-01	Gimbal	10-308-01	Speed control lever	151	20-047-01	Anti-skate cam	20-047-01	Heyco — line cord	206	10-038-01	Automatic spindle	10-038-01	Automatic spindle
47	37-279-01	Tube, CB wgt.	10-308-01	Anti-skate cam	152	10-308-01	Stud	10-308-01	Heyco — grd. lead	207	18-009-05	Motor	18-009-05	Motor
48	10-383-01	Floating pivot	10-310-01	P/U lever	153	10-308-01	P/U lever	10-308-01	Timing pulley	208	28-225-01	Gauge — stylus overhang	28-225-01	Gauge — stylus overhang
49	27-366-01	Bearing	23-180-01	Bias spring	154	10-095-01	Bias spring	10-095-01	"c" clip	209	37-364-01	Gauge — 20° tracking angle	37-364-01	Gauge — 20° tracking angle
50	22-007-01	Washer (as required)	40-040-01	Anti-skate lever	155	23-180-01	"c" clip	23-180-01	"c" clip	210	10-414-02	Cart. mtg. hdwr.	10-414-02	Cart. mtg. hdwr.
					156	37-189-01	"c" clip	37-189-01	VIA wheel	211	17-113-04	Audio cable	17-113-04	Audio cable
					157	39-218-01	Anti-skate spring	39-218-01	Pivot — VIA wheel	212	10-290-04	Hinge (2)	10-290-04	Hinge (2)

